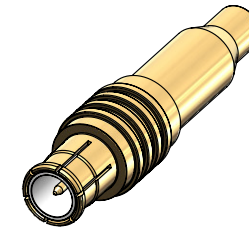


**Revisions**

| Issue | Date       | Note           |
|-------|------------|----------------|
| 2     | 16/07/2024 | See GTXPDC/974 |

**DATASHEET**



**1. Mechanical**

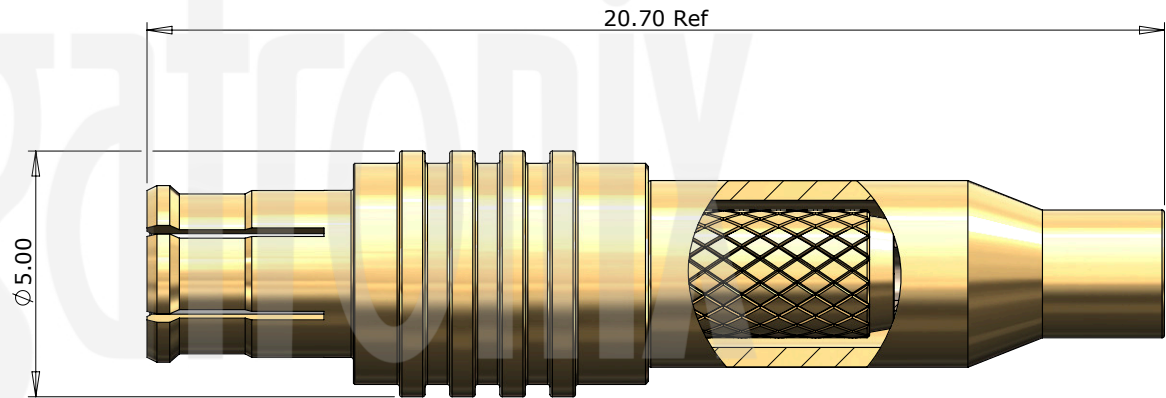
|                     |                                   |
|---------------------|-----------------------------------|
| Fixing Method       | Crimp                             |
| Cable Retention     | Equal to breaking strain of cable |
| Durability          | 500 mating cycles                 |
| Contact Termination | Solder                            |

**2. Environmental**

|                   |                       |
|-------------------|-----------------------|
| RoHS Compliant    | Yes                   |
| Temperature Range | -65 to +165 degrees C |

**3. Electrical**

|                         |                       |
|-------------------------|-----------------------|
| Dielectric Withstanding | 500 Volts RMS Maximum |
| Impedance               | 50 ohms               |
| Interface Frequency     | 6 GHz                 |
| Working Voltage         | 250 Volts RMS Maximum |



| Description  | Material               | Finish |
|--------------|------------------------|--------|
| 6 Dielectric | PTFE                   | White  |
| 5 Insulator  | PTFE                   | White  |
| 4 Tube       | Brass                  | Nickel |
| 3 Ferrule    | Brass                  | Gold   |
| 2 Pin        | Brass                  | Gold   |
| 1 Body       | Brass/Beryllium Copper | Gold   |

Unless otherwise specified tolerances  
 0.5-5 = ±0.2  
 >5-30 = ±0.4  
 >30-120 = ±0.6  
 >120-315 = ±1.0  
 >315-1000 = ±1.6  
 Angles = ±5°  
 Units = mm

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|                     |              |
|---------------------|--------------|
| <b>Author</b>       | PJP          |
| <b>Drawn by</b>     | PJP          |
| <b>Drawing date</b> | 16/05/2016   |
| <b>Checked by</b>   | DJB          |
| <b>Checked date</b> | 16/05/2016   |
| <b>Scale</b>        | Not to scale |

**Part Number** MX15-0178-C01  
**Title:** MCX Crimp Plug, Gold Plated, 50 ohms, RG178

| Revisions |            |                |
|-----------|------------|----------------|
| Issue     | Date       | Note           |
| 2         | 16/07/2024 | See GTXPDC/974 |

# ASSEMBLY INSTRUCTIONS

## Assembly Instructions

1) Slide the ferrule onto the cable and strip the cable to the dimensions as shown, taking care not to nick the centre conductor or braid.



2) Slide the tube onto the cable and under the braid, then slide the insulator onto the cable. Solder the pin onto the centre conductor and slide the pin into the body, ensuring that the cable braid is on the outside of the connector mandril and that the centre pin is captivated.

3) Slide the ferrule forward and crimp.

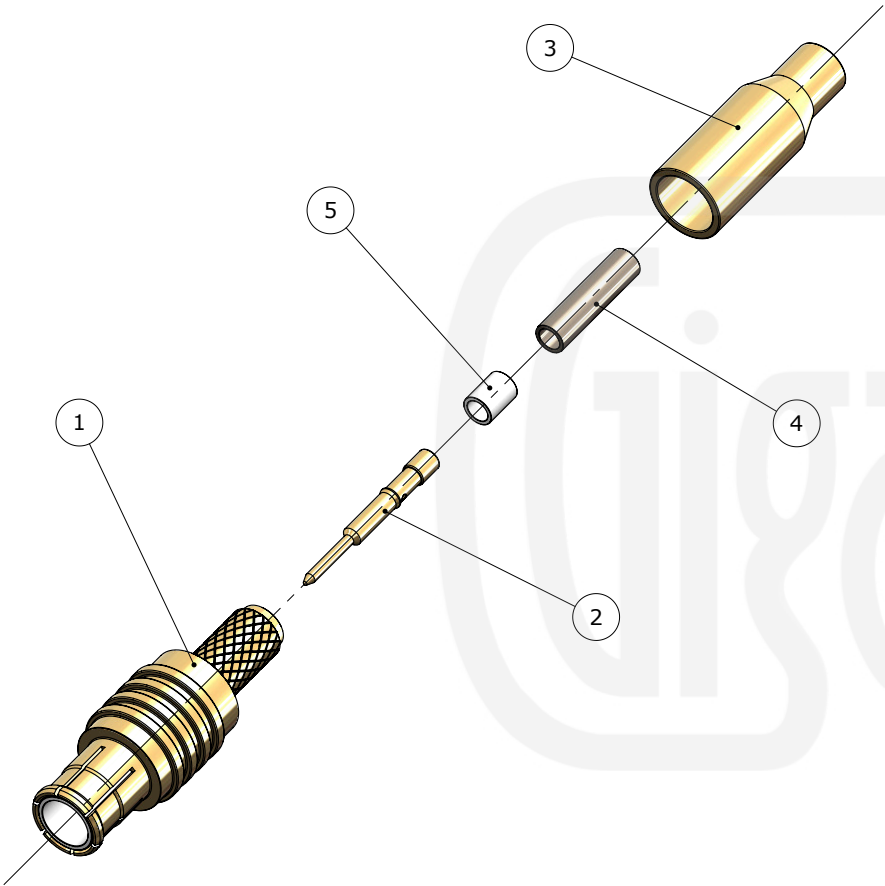


### Crimp Die Sizes:

3.25mm Hex., Solder centre core

### Strip Dimensions:

A=7.0mm, B=1.0mm, C=3.0mm



| Description  | Material               | Finish |
|--------------|------------------------|--------|
| 6 Dielectric | PTFE                   | White  |
| 5 Insulator  | PTFE                   | White  |
| 4 Tube       | Brass                  | Nickel |
| 3 Ferrule    | Brass                  | Gold   |
| 2 Pin        | Brass                  | Gold   |
| 1 Body       | Brass/Beryllium Copper | Gold   |

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| Author       | PJP          |
| Drawn by     | PJP          |
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| Checked by   | DJB          |
| Checked date | 16/05/2016   |
| Scale        | Not to scale |

Part Number MX15-0178-C01

Title: MCX Crimp Plug, Gold Plated, 50 ohms, RG178